

Recombinant Human Tie2/CD202b Protein (His & GST Tag)



Catalog Number:PKSH031471

Note: Centrifuge before opening to ensure complete recovery of vial contents.

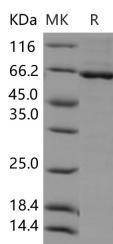
Description

Synonyms	CD202B;TIE-2;TIE2;VMCM;VMCM1
Species	Human
Expression Host	Baculovirus-Insect Cells
Sequence	Gln771-Ala1124
Accession	NP_000450
Calculated Molecular Weight	68.3 kDa
Observed molecular weight	64 kDa
Tag	N-His-GST
Bioactivity	1. No Kinase Activity. 2. Immobilized human TEK (aa 771-1124) at 2 µg/ml (100 µl/well) can bind human Ang2-Fc with a linear range of 0.31-20 µg/ml.

Properties

Purity	> 92 % as determined by reducing SDS-PAGE.
Endotoxin	< 1.0 EU per µg of the protein as determined by the LAL method.
Storage	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.
Shipping	This product is provided as lyophilized powder which is shipped with ice packs.
Formulation	Lyophilized from sterile 20mM Tris, 500mM NaCl, pH 8.0, 10% glycerol Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Please refer to the specific buffer information in the printed manual.
Reconstitution	Please refer to the printed manual for detailed information.

Data



> 92 % as determined by reducing SDS-PAGE.

Background

TEK, or TIE-2, is an endothelial cell-specific receptor tyrosine kinase (RTK) that is known as a functioning molecule of vascular endothelial cells. TEK comprises a subfamily of RTK with TIE, and these two receptors play critical roles in vascular maturation, maintenance of integrity and remodeling. Targeted mutagenesis of both Tek and its agonistic ligand, Angiopoietin-1, result in embryonic lethality, demonstrating that the signal transduction pathways mediated by this receptor are crucial for normal embryonic development. TEK signaling is indispensable for the development of the

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embryonic vasculature and suggests that TEK signaling may also be required for the development of the tumor vasculature.

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